## ADJUSTABLE-SPEED DRIVES


| Title, length | 1967 | Month, page |
|---|---|---|
| An analysis of the function of modern adjustable-ratio drives: | | |
| Part 3, Differential Drives (5) | | Mar 44 |
| Strip-mill computer controls quality and quantity (1-1/3) | | Apr 42 |
| Speed control systems for conveyor drives (6) | | May 45 |
| Three SCR drives get the concrete down (6) | | Oct 56 |


## BASIC EDUCATION SERIES


| Title, length | 1967 | Month, page |
|---|---|---|
| How to rub out friction: | | |
| Part 4, Friction when you need it (1-1/3) | | Feb 42 |
| An analysis of the function of modern adjustable-ratio drives: | | |
| Part 3, Differential Drives (5) | | Mar 44 |
| Stability of vertical shafts: | | |
| Part 2, Dynamic treatment of elastic stability (3-2/3) | | Mar 50 |
| Part 3, Dynamic Stability (4-2/3) | | May 54 |
| Automatic Controls—I tell Homer about Servos | | |
| Session 8, Troubleshooting Servos (2) | | Mar 55 |
| Tricks and Traps—in the design of drives and bearings: | | |
| The case of the Hidden Gears (1) | | Apr 88 |
| Introduction to Automatic Machine Drive Systems | | |
| Part 1, Introduction and applications (5) | | Jun 25 |
| Part 2, Prime movers, components, and applications (5) | | Jul 30 |
| Part 3, Sensor, command, and feedback components (5) | | Aug 67 |
| Part 4, Electrical/Electronic devices, applications and test (5) | | Sep 56 |
| How to determine gear sliding curves graphically: | | |
| Part 1, Basic curves (2) | | Nov 50 |
| Part 2, Changing pitch and proportion (2) | | Dec 50 |


## BEARINGS


| Title, length | 1967 | Month, page |
|---|---|---|
| How to use unground ball bearings—construction and uses (3) | | Mar 59 |
| How to use O-rings to align bearings (1-2/3) | | Mar 62 |
| Lateral machine traverse eased by linear bearings (2/3) | | Mar 64 |
| Why a geared bearing? (2-2/3) | | May 63 |
| Water carries sliding undersea launch simulator (3) | | May 66 |
| Linear antifriction bearings replace sliding ways (2) | | Jun 43 |
| The fourth dimension of rolling bearing life (2-1/3) | | Jun 43 |
| World's largest jaw crusher takes giant-size bites (2) | | Jul 36 |
| Catching bad bearings before they let go (2) | | Jul 41 |
| How to mount cylindrical roller bearings (4) | | Jul 44 |
| A computer approach to bearing selection (4-1/2) | | Sep 63 |
| Synchronous belt drives replace gearboxes on boat (2) | | Oct 62 |
| We killed the engine to save the fan (2) | | Oct 68 |
| Clutches coordinate dynamometer testing (2) | | Oct 70 |
| Conveyor rides on ball bearing rollers (2) | | Oct 72 |
| Selecting a hydrostatic lead screw (3) | | Nov 61 |
| How to select ball thrust bearings (3) | | Dec 53 |


## BELT DRIVES


| Title, length | 1967 | Month, page |
|---|---|---|
| Why the pulley needs a crown (1) | | Apr 85 |
| Polyurethane-compound V-belt lets 15-inch drill press do more work (2/3) | | May 40 |
| World's largest jaw crusher takes giant-sized bites (2) | | Jul 36 |
| Synchronous belt drives replace gearboxes on boats (2) | | Oct 62 |
| Gears were finally the answer (1) | | Oct 64 |
| Electric clutch and brake improve production rate (1) | | Oct 67 |


## CHAIN DRIVES


| Title, length | 1967 | Month, page |
|---|---|---|
| Drive systems in the paper industry (5) | | Mar 39 |
| Self-lube chain cuts paper-cutting costs (3) | | Jul 27 |
| Troubleshooting heavy drive chain on power shovels (5) | | Sep 51 |
| Three SCR drives get the concrete down (6) | | Oct 56 |
| Conveyor rides on ball bearing rollers (2) | | Oct 72 |


## CLUTCHES, BRAKES, FLUID COUPLINGS, TORQUE CONVERTERS


| Title, length | 1967 | Month, page |
|---|---|---|
| Packaged motor-clutch-brake drives feeder-straightener (2-1/3) | | Jan 22 |
| Change gears control feed rates for gun drilling or gun reaming (2/3) | | Jan 27 |
| Electric clutch keeps gamma beam in line (1) | | Mar 32 |
| Self-actuating brake is bidirectional (1/2) | | Apr 44 |
| Hydraulic clutch works with caliper brake on metal-cutting and stripping line (2/3) | | May 42 |
| What are big air brakes doing on industrial equipment? (3-2/3) | | Jun 30 |
| Magnet drives magnet through glass fiber plate (1) | | Jul 38 |
| Clutch-friction materials—facing the future (4) | | Sep 42 |
| Powershift log skidder is computer on wheels (2-2/3) | | Sep 48 |
| Electric clutch and brake improve production rate (1) | | Oct 67 |
| We killed the engine to save the fan (2) | | Oct 68 |
| Clutches coordinate dynamometer testing (2) | | Oct 70 |


## GEAR DRIVES


| Title, length | 1967 | Month, page |
|---|---|---|
| Change gears control feed rates for gun drilling and reaming (2/3) | | Jan 27 |
| Coal dryer uses high-reduction drive for slight speed change (2) | | Feb 38 |
| Use harmonic drives as high-ratio differentials (3) | | Feb 45 |
| Drive systems in the paper industry (5) | | Mar 39 |
| Find planetary gear ratios graphically (1-2/3) | | Apr 86 |
| Tricks and Traps: The case of the hidden gears (1) | | Apr 88 |
| Moly tames rough bull gears (3) | | May 51 |
| Why a geared bearing (2-2/3) | | May 63 |
| Salt bath upgrades gears (2-1/3) | | Aug 72 |
| Harmonic drive steers Saturn V transporter (2) | | Sep 46 |
| Power shift log skidder is computer on wheels (2-2/3) | | Sep 48 |
| Three SCR drives get the concrete down (6) | | Oct 56 |
| Gears were finally the answer (1) | | Oct 64 |
| Advances in Aerospace power gearing (7) | | Nov 40 |
| Bevel-helical reducers drive boom conveyor belt (2) | | Nov 48 |
| How to determine gear sliding curves graphically: Part 1, Basic Curves (2) | | Nov 50 |
| Gearing for portable tools: a way out of the squeeze (1-1/3) | | Nov 52 |
| How film thickness affects gear-tooth scoring (3) | | Nov 53 |
| Color-coding can simplify change-gear selection (1-2/3) | | Nov 56 |
| Curved spur rack drives two spur pinions (1) | | Nov 59 |
| Motors and gears ride with the tilt (3) | | Dec 47 |
| How to determine gear sliding curves graphically: Part 2, Changing Pitch and Proportion (2) | | Dec 50 |


## LUBRICANTS AND SYSTEMS


| Title, length | 1967 | Month, page |
|---|---|---|
| The little lube that wasn't there (3-2/3) | | Feb 53 |
| The fourth dimension of rolling bearing life (2-1/3) | | Jun 46 |
| Self-lube chain cuts paper-cutting costs (3) | | Jul 27 |
| How film thickness affects gear-tooth scoring (3) | | Nov 53 |


## MOTORS AND ENGINES


| Title, length | 1967 | Month, page |
|---|---|---|
| Power plants you can live with (5) | | Feb 33 |
| Gas turbines put to work in standard mechanical-drive package (1) | | May 38 |
| O-Rings make a quick friction sheave (1) | | Jun 40 |
| Powershift log skidder is computer on wheels (2-2/3) | | Sep 48 |
| Synchronous belt drives replace gearboxes on boats (2) | | Oct 62 |
| Motors and gears ride with the tilt (3) | | Dec 47 |


## OTHER COMPONENTS


| Title, length | 1967 | Month, page |
|---|---|---|
| Stability of vertical shafts: Part 2, Dynamic Treatment of Elastic Stability (3-2/3) | | Mar 50 |
| Flexible shafts keep film in line (2/3) | | Apr 46 |
| A new look at Geneva mechanisms (5) | | Apr 80 |
| Stability of vertical shafts: Part 3, Dynamic Stability (4-2/3) | | May 54 |
| Designing with spiral retaining rings (4-2/3) | | Jun 34 |
| Gravity feeds foam-paring machine (1) | | Aug 75 |
| Selecting a hydrostatic lead screw (3) | | Nov 61 |